I CLAIM AS MY INVENTION

1. A method for manufacturing a straight strip lamination with a press, comprising the steps of:

providing in the press a die comprising a main slot punch, a separator punch, and a part feature punch;

activating the main slot punch and separator punches and deactivating the part feature punch;

with each strike of the press, feeding a strip into the die a first same step distance and repeatedly stamping with the main slot punch and the separator punch to create a plurality of slots with punched-out separations therebetween having a desired constant slot distance progression;

deactivating the main slot punch and the separator punch and activating the part feature punch, and feeding the strip into the die with a second step distance different then said first step distance and stamping with the part feature punch so as to create at least one part feature in said strip; and

deactivating the part feature punch and reactivating the slot punch and the separator punch and feeding the strip into the die with a third step distance equal to a difference between said first and second step distances, and stamping with the slot and separator punches.

2. The method according to claim 1 wherein following said third step distance, feeding the strip with said first same step distance and stamping with the slot and separator punches.

- 3. The method according to claim 1 including the step of providing a cut offend contour punch in the die, deactivating the slot and separator punches and activating the cut off-end contour punch, and feeding the strip and stamping with the cut off-end contour punch.
- 4. The method according to claim 3 wherein the strip is fed prior to stamping with the cut off- end contour punch with a fourth step distance different than at least one of said first, second, and third step distances.
- 5. The method according to claim 4 wherein the fourth step distance is different than the first, second, and third step distances.
- 6. The method according to claim 1 including the step of providing said part feature as a T-slot.
- 7. The method according to claim 1 including the step of feeding the strip with opposed pinch rollers driven by a servo motor controlled by a program control.
- 8. The method according to claim 1 including the step of coiling a completed strip at an output of the die.
- 9. The method according to claim 1 including the step of producing linear motor straight strip laminations.

- 10. The method according to claim 1 including the step of providing the slot punch so that teeth are formed in two parallel strips.
- 11. The method according to claim 1 including the step of providing the die beginning at strip entrance end with the slot punch, followed by the part feature punch, which is then followed by the separator punch.
- 12. The method according to claim 11 including the step of following the separator punch by a cut off- end contour punch.
- 13. The method according to claim 12 wherein the cut off-end contour punch has a separator punch portion.
- 14. The method according to claim 12 wherein the cut off-end contour punch has a part feature portion.
- 15. The method according to claim 1 wherein the die outputs a continuous strip of completed lamination which is coiled, and then later the coil is uncoiled and separate strip laminations are punched from the continuous coil lamination.
- 16. A method for manufacturing a straight strip lamination with a press, comprising the steps of:

providing in the press a die having at least a slot punch and a part feature punch; activating the slot punch and feeding the strip into the die station with a constant

slot step distance to create a plurality of slots; and

when a part feature is to be punched, deactivating the slot punch, activating the part feature punch, and feeding the strip with a new step distance which is different then the slot step distance.

- 17. A method for manufacturing a straight strip lamination with a press, comprising the steps of:
- a) providing in the press a die having at least a slot punch and a part feature punch;
- b) activating the slot punch and feeding the strip into the die station with a constant slot step distance progression to create a plurality of slots;
- c) when a part feature is to be punched, deactivating the slot punch, activating the part feature punch, and feeding the strip with a new step distance which is different then the slot step distance; and
- d) repeating steps b) and c) to create a pattern of slots and part features wherein progression of the part feature step distances is not evenly divisible by a progression of the slot step distances.
- 18. A method for manufacturing a straight strip lamination with a press, comprising the steps of:

providing in a press a die having in a direction of strip feed at least a slot punch, followed by a part feature punch which is followed by a separator punch;

providing a servo motor for feeding the strip into the die wherein a step distance can be changed depending on whether the slot punch and separator punch are being activated, or whether the part feature punch is being activated, so that a step distance for the slot punch is different than a step distance for the part feature punch; and punching out the straight strip lamination by use of said die.